

We claim:

1. A composition comprising a bioactive fraction obtained from fruits of *Cinnamomum zeylanicum* having
 - 5 Moisture: 4-6%
 - Color: Greenish white
 - Flavor: Mild salty flavoroptionally along with one or more pharmaceutically acceptable additives.
- 2 A composition as claimed in claim 1, wherein the bioactive fraction is a hexane
10 extract obtained from the fruits of *Cinnamomum zeylanicum*.
- 3 A composition as claimed in claim 1, wherein the composition has antibacterial
 activity against gram positive and gram negative bacterial in the range of 200-500
 ppm.
- 4 A composition as claimed in claim 1, wherein the composition has antibacterial
15 activity against *Bacillus cereus*, *Bacillus subtilis*, *Bacillus coagulans*,
 Pseudomonas aeruginosa, *Staphylococcus aureus*.
- 5 Use of a bioactive fraction obtained from fruits of *Cinnamomum zeylanicum*
 having
 - Moisture: 4-6%
 - 20 Color: Greenish white
 - Flavor: Mild salty flavoras an antibacterial agent.
6. Use as claimed in claim 5, wherein the bioactive fraction is a hexane extract
 obtained from the fruits of *Cinnamomum zeylanicum*.
- 25 7. Use as claimed in claim 5, wherein the bioactive fraction has antibacterial activity
 against gram positive and gram negative bacterial in the range of 200-500 ppm.
8. Use as claimed in claim 5, wherein the bioactive has antibacterial activity against
 Bacillus cereus, *Bacillus subtilis*, *Bacillus coagulans*, *Pseudomonas aeruginosa*,
 Staphylococcus aureus.
- 30 9. A process for preparing antibacterial bioactive fraction having
 - Moisture: 4-6%
 - Color: Greenish white
 - Flavor: Mild salty flavor

from the unconventional parts of *Cinnamomum zeylanicum*, said process comprising the steps of :

- 5 (a) extracting the powdered fruits of *Cinnamomum zeylanicum* with an organic solvent at a temperature in the range of 55-60°C for a time period in the range of 6-8 mesh.
 - (b) filtering and concentrating the solvent obtained in step (a) to obtain a concentrate and to recover upto 90% of the solvent;
 - 10 (c) drying the concentrate obtained in step (b) in a vacuum oven at 40-50°C under vacuum at 10-25 mm of mercury to obtain the antibacterial bioactive fraction.
10. A process as claimed in claim 1 wherein the organic solvent used is hexane.
 11. A process as claimed in claim 2 wherein the yield of hexane extract is about 1.5 to 3.0%.
 - 15 12. A process as claimed in claim 1 wherein the filtration is carried out by conventional methods.
 13. A process as claimed in claim 1 wherein the concentration temperature is of 55 – 60°C.
 14. A process as claimed in claim 1 wherein the antibacterial bioactive fraction thus
20 obtained has antibacterial activity against gram positive and gram negative bacterial in the range of 200-500 ppm.